



## Natural Sources Aerosol Remote Monitoring (2nd Edition)

Guest Editors:

**Dr. Alessia Sannino**

Department of Physics,  
Università degli Studi di Napoli  
"Federico II", 80126 Naples, Italy

**Dr. Alejandro Rodríguez-  
Gómez**

CommSensLab, Department of  
Signal Theory and  
Communications, Universitat  
Politécnica de Catalunya, 08034  
Barcelona, Spain

**Dr. Simone Lolli**

CNR-IMAA, Contrada S. Loja,  
85050 Tito Scalo, PZ, Italy

Deadline for manuscript  
submissions:

**closed (18 July 2025)**

### Message from the Guest Editors

Atmospheric aerosol particles from both anthropogenic and natural sources represent major uncertainties in our knowledge of atmospheric processes and of the Earth radiative balance. They also play a strong role in the dynamics of climate change and in human health and safety. Natural sources have a high contribution to background aerosol concentrations, and therefore, their accurate quantification is essential for the study of the mechanisms, interactions and impact of anthropogenic aerosols within the Earth system. In addition, this background is variable not only due to the uncertainties introduced by the unpredictability of natural events, but also as a consequence of human intervention, which is contributing to an increase not only in anthropogenic aerosols but also those of natural origin.

This Special Issue aims to combine the contributions of various studies, which, through the use of remote sensing techniques, investigate aerosols of natural origin and increase knowledge about their properties and mechanisms.





an Open Access Journal by MDPI

## Editor-in-Chief

### Dr. Daniele Contini

Institute of Atmospheric Sciences  
and Climate (ISAC), National  
Research Council (CNR), Str. Prv.  
Lecce-Monteroni km 1.2, 73100  
Lecce, Italy

## Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, Inspec, CAPlus / SciFinder, Astrophysics Data System, and other databases.

**Journal Rank:** CiteScore - Q2 (Environmental Science (miscellaneous))

## Contact Us

---

Atmosphere Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/atmosphere](http://mdpi.com/journal/atmosphere)  
[atmosphere@mdpi.com](mailto:atmosphere@mdpi.com)  
[X@Atmosphere\\_MDPI](https://twitter.com/Atmosphere_MDPI)